Texas Commission on Environmental Quality
Surface Water Quality Monitoring Program

Benthic Macroinvertebrate Data Reporting Form

RTAG# | REGION | EMAIL-ID: | COLLECTOR

STATION ID | SEGMENT | SEQUENCE | DATA SOURCE

Station Description_____

Composite - Most biological samples will be type Both

COMPOSITE SAMPLE

COMPOSITE CATEGORY: T=Time S=Space B=Both

M M D D Y Y Y Y — START DATE

H H M M — START TIME

START DEPTH (SHALLOWEST)

M = meters F = feet

M M D D Y Y Y Y — END DATE

H H M M — END TIME

END DEPTH (DEEPEST)

M = meters F = feet

PARAMETRIC DATA

Enter the codes and values appropriate for this sample. Code (<) if less than value, and (>) if greater than value, other wise leave this column blank. Continue if necessary, on additional worksheets. Codes to describe the benthic sampling effort are listed on the back. Benthic data must be submitted with a Habitat Assessment.

CODE	(<) or (>)	Value	Description

Benthic Macroinvertebrate Parameter Codes

NOTE: Measurements reported in metric units

**** Indicates Parameter Measured at Sample Point (e.g. riffle from which benthic sample is collected)**

Quantitative Benthic Sample Descriptors					
89899		Biological Data Reporting Units (Values: 1= number of individuals from sub-sample; 2 = number of individuals/ft^2; 3 = number of individuals/m^2; 4 = total number in kicknet)	**89946**		Mesh size, any net or sieve (diagonal measurements) for benthic collection (cm)
89901		Surber Sampler Effort, area sampled (m^2)	**89961**		Ecoregion (Texas Ecoregion Code)
89935		Ekman Sampler Effort, area sampled (m^2)	**84161**		Stream Order
89934		Petersen Sampler Effort, area sampled (m^2)	**90005**		Benthos Sampled--No Organisms Present
89933		Hester-Dendy Duration (days)	**90055**		Total Taxa (Taxa Richness), Benthos # Taxa
89950		Benthic Sampler (1=Surber, 2=Ekman, 3=kicknet, 4=Petersen, 5=Hester-Dendy)	**90056**		Total # of Diptera Taxa
89975		Area of snag surface sampled (m^2)	**90057**		Total # of Ephemeroptera Taxa
****89921**		Percent undercut bank at sample point (%)	**90058**		Total # of Intolerant Taxa
****89922**		Percent overhanging brush at sample point (%)	**90060**		EPT Taxa (% of communtiy)
****89923**		Percent gravel substrate at sample point (%)	**90062**		Chironomidae (% of community)
****89924**		Percent sand substrate at sample point (%)	**90066**		Tolerant Taxa (% of community), Benthos
****89925**		Percent soft bottom at sample point (%)	**90020**		Benthic Grazers (% of community)
****89926**		Percent macrophyte bed at sample point (%)	**90025**		Benthic Gatherers (% of community)
****89927**		Percent snags and brush at sample point (%)	**90030**		Benthic Filterers (% of community)
****89928**		Percent bedrock at sample point (%)	**90067**		Dominance (3 Taxa) (% of community)

RBAP Benthic Sample Descriptors					
89899		Biological Data Reporting Units (Values: 1= number of individuals from sub-sample; 2 = number of individuals/ft^2; 3 = number of individuals/m^2; 4 = total number in kicknet)	89946		Mesh size, sieve (diagonal measurements) (cm)
89950		Benthic Sampler (1=Surber, 2=Ekman, 3=kicknet, 4=Petersen, 5=Hester-Dendy)	**89961**		Ecoregion (Texas Ecoregion Code)
89902		Dip Net Effort, area swept (m^2)	**84161**		Stream Order
89903		Kicknet Effort, area kicked (m^2)	**90005**		Benthos Sampled--No Organisms Present
89904		Kicknet Effort, minutes kicked (min.)	**90055**		Total Taxa (Taxa Richness), Benthos, # Taxa
89905		Snags and Shoreline Sampling Effort, minutes picked	**90008**		EPT Taxa Abundance (# Taxa)
89906		Number of individuals in benthic RBA sub-sample (± 100)	**90007**		Biotic Index (HBI)
89950		Benthic Sampler (1=Surber, 2=Ekman, 3=kicknet, 4=Petersen, 5=Hester-Dendy)	**90062**		Chironomidae (% of community)
****89921**		Percent undercut bank at sample point (%)	**90042**		Dominant Taxon, Benthos (% of community)
****89922**		Percent overhanging brush at sample point (%)	**90010**		Dominant Functional Feeding Group (% of community)
****89923**		Percent gravel substrate at sample point (%)	**90036**		Benthic Predators (% of community)
****89924**		Percent sand substrate at sample point (%)	**90050**		Ratio of Intolerant: Tolerant Taxa
****89925**		Percent soft bottom at sample point (%)	**90069**		% of Total Trichoptera as Hydropsychidae
****89926**		Percent macrophyte bed at sample point (%)	**90052**		Total # Non-insect Taxa
****89927**		Percent snags and brush at sample point (%)	**90025**		Benthic Collector-Gatherers (% of community)
****89928**		Percent bedrock at sample point (%)	**90054**		% of Total # as Elmidae (% of community)